

Available online at www.sciencedirect.com

ScienceDirect

journal homepage: <http://ees.elsevier.com/jot>

WORKSHOP SUMMARY

Workshop 35 Innovation and Practice in Orthopaedics

Proposed by: Chinese Orthopaedic Research Society

Workshop Leaders



Prof. Guoan Li,
Massachusetts General Hospital and Harvard Medical School,
Boston, MA, USA
E-mail: GLI1@mgh.harvard.edu



Prof. Cheng-Kung Cheng,
Orthopedic Device Research Center, National Yang-Ming
University, Taipei, Taiwan
E-mail: ckcheng2008@gmail.com

Workshop Summary

With the fast development of basic science and clinical research, numerous new concepts and technologies have been introduced into orthopaedic surgery. These include digital orthopaedic surgery, precision medicine, robotic surgery, minimally invasive surgery and various orthopaedic implants. An orthopaedic surgeon, especially a young one, faces the choice of passively accepting these new technologies or actively participating in the development of these new technologies in orthopaedic surgery.

In this workshop, four experts in orthopaedic research and surgery discuss the relationship between basic science research and development of new technology in orthopaedic surgery. Dr. Zhuojing Luo will discuss a new technique that has been introduced into orthopaedic surgery, with special application in spinal surgery. Dr. Cheng-Kung Cheng will introduce innovative ideas in clinical orthopaedic applications. Dr. Yue Zhou will discuss translational research and surgery development in his introduction on lumbar disc repair. Dr. Guoan Li will discuss the design principles of various total knee arthroplasty implants and trends for future development. He will specifically discuss the basic science research that led to various new concepts in total knee arthroplasties.

Through this workshop, we hope that young orthopaedic doctors will gain a better understanding of the development of modern orthopaedic surgery. More importantly, we wish to encourage young doctors to actively participate in the development of orthopaedic surgery and contribute to the future of this field.

Speakers



Speaker 1: MIS treatment of thoracolumbar fracture using the Lora System

Prof. Zhuojing Luo,
Department of Orthopaedic Surgery, Xijing Hospital, Fourth
Military Medical University, Xi'an, China
E-mail: zjluo@fmmu.edu.cn



Speaker 2: Innovative ideas in clinical application of translational research

Prof. Cheng-Kung Cheng,
Orthopedic Device Research Center, National Yang-Ming
University, Taipei, Taiwan
E-mail: ckcheng2008@gmail.com



Speaker 3: The present and future of lumbar disc repair

Dr. Yue Zhou,
Department of Orthopaedics, Xinqiao Hospital, Third Military
Medical University, Chongqing, China
E-mail: xqguke@163.com



Speaker 4: Knee kinematics and total knee arthroplasty design

Prof. Guoan Li,
Massachusetts General Hospital and Harvard Medical School,
Boston, MA, USA
E-mail: GLI1@mgh.harvard.edu